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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/630,612	07/30/2003	Norihiko Furuta	488-00057	8673
7590	04/21/2004		EXAMINER	HOOK, JAMES F
Joseph J. Jochman ANDRUS, SCEALES, STARKE & SAWALL, LLP Suite 1100 100 East Wisconsin Avenue Milwaukee, WI 53202-4178			ART UNIT	PAPER NUMBER
			3752	
DATE MAILED: 04/21/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/630,612	FURUTA, NORIHIKO
	Examiner	Art Unit
	James F. Hook	3752

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on ____.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-3 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) Claim(s) ____ is/are allowed.
- 6) Claim(s) 1-3 is/are rejected.
- 7) Claim(s) ____ is/are objected to.
- 8) Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on ____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. ____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date ____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date ____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: ____.

DETAILED ACTION

Priority

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Jung. The patent to Jung discloses the recited hose comprising an inner layer 1 having a corrugated metal tube, outer layer 2 circumscribing a radial outer side of the inner layer, and a reinforcing layer 3 having reinforcing filament members included in what is considered the outer layer which is formed of the plurality of layers outside of the inner layer, the filament members are arranged at a winding angle with respect to an axis of between 35-45 degrees which includes 40 degrees or lower.

Claim 2 is rejected under 35 U.S.C. 102(b) as being anticipated by Doane. The patent to Doane discloses the recited hose comprising an inner layer 3 having a corrugated metal tube, outer layer 7 circumscribing a radial outer side of the inner layer, and a plurality of reinforcing layers 9,4, 10, and 5 where layer 4 is braided and seen to have filaments that are at an angle to a neutral angle extending to either side of it, as

well as other layers 5, 9, and 10 which show wound elements at a high angle to the axis of the tube, and therefore to a neutral angle.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Odru.

The patent to Odru discloses the recited hose comprising an inner layer 9 having a corrugated metal tube, outer layer 1 circumscribing a radial outer side of the inner layer, and a plurality of reinforcing layers 2,3,4,5,6, 7, and 8 having reinforcing filament members included in what is considered the outer layer which is formed of the plurality of layers outside of the inner layer, the filament members are arranged at a winding angle with respect to an axis, and where the layers 3,5,7 are considered the equivalent of a canvas ply in that they are formed with warp and weft fibers that are braided together. The patent to Odru discloses all of the recited structure with the exception of forming the woven layers with the warp fiber being substantially parallel to an axis, however, Odru does suggest that the angle is not large, see col. 2, lines 40-43. It would have been obvious to one skilled in the art to orient the woven layers in Odru to be of any small angle including substantially parallel to the longitudinal axis as such is merely a choice of mechanical expedients to use routine experimentation to vary the angle of

the woven layer such that one warp fiber is substantially parallel as such would require only routine experimentation to arrive at optimum values.

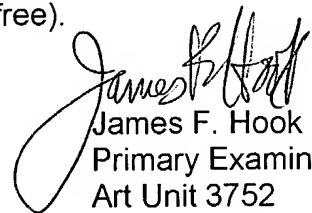
Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Procida, Hibino, Takagi, Candee, Bauer, Hines, Ziemek, Hadley, McIntosh, and Moreiras disclosing state of the art corrugated reinforced tubes.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James F. Hook whose telephone number is (703) 308-2913. The examiner can normally be reached on Monday to Wednesday, work at home Thursdays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Mar can be reached on (703) 308-2087. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



James F. Hook
Primary Examiner
Art Unit 3752

JFH